

ABSTRACT

This invention provides a granular polysaccharide polymer having phthalocyanine bonded thereto which is a crosslinked polymer comprising a phthalocyanine skeleton covalently bonded to a crosslinked granular porous chitosan. When this crosslinked polymer is used as an adsorbent, a polycyclic organic material present as a mixture in a solution can be selectively adsorbed, desorbed, or separated. The granular polysaccharide polymer having phthalocyanine bonded thereto is excellent not only in the ability to adsorb polycyclic organic materials, but in the ability to desorb the adsorbed polycyclic organic materials. Accordingly, the crosslinked polymer is particularly useful for selective adsorption, desorption/concentration, or separation of polycyclic organic materials, e.g., mutagens, present in a very small amount, for example, in environments, foods, table luxuries, biological samples and can be widely utilized for the qualitative determination, quantitative determination, or removal of mutagens.